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(54) COLOR PICTURE RECOGNITION METHOD AND COPYRIGHT: (C)1995,JPO  
OBJECT EXTRACTION METHOD

(57) Abstract:

PURPOSE: To compress the data volume to recognize a color picture at the time of recognition processing of the color picture.

CONSTITUTION: A mesh dividing part 2 divides an input color picture signal 1 into small areas (meshes), and a feature quantity extracting part 3 extracts the feature quantity (chromaticity histogram) of an input color picture signal RGB in each divided smart area and stores it in a feature quantity memory 4. A vector quantizing part 6 calculates the distance between the chromaticity histogram in the feature quantity memory 4 and a code book 5 and holds the code of the code book, which minimizes this distance, in a vector quantized value memory 7 as the vector quantized value (VQ value) of this small area. A recognition part 8 calculates the distance between the vector quantized value histogram of the input picture and that in a dictionary to discriminate whether the input color picture is a discrimination object or not.

